

What is claimed is:

- 1 1. A method for manufacturing a speaker diaphragm, said method
2 comprising the steps of:
3 disposing a resin speaker diaphragm made by one of injection
4 molding and sheet forming by heating in a reactive chamber;
5 disposing an electrode outside said reactive chamber; and
6 activating the surface of said speaker diaphragm by applying plasma
7 while keeping the temperature inside said reactive chamber below the heat
8 deformation temperature of said speaker diaphragm.
- 1 2. The method for manufacturing a speaker diaphragm as defined in
2 Claim 1, wherein a plurality of said resin speaker diaphragms are placed inside a in
3 said reactive chamber at a certain interval so as to apply plasma substantially
4 uniformly.
- 1 3. The method for manufacturing a speaker diaphragm as defined in
2 Claim 1, wherein isocyanate primer is applied after plasma treatment.
- 1 4. The method for manufacturing a speaker diaphragm as defined in
2 Claim 2, wherein isocyanate primer is applied after plasma treatment.
- 1 5. The method for manufacturing a speaker diaphragm as defined in
2 Claim 1, wherein one of monopolymer and copolymer of polyolefin such as
3 polyethylene and polypropylene is used as a material for said speaker diaphragm.

1 6. The method for manufacturing a speaker diaphragm as defined in
2 Claim 2, wherein one of monopolymer and copolymer of polyolefin such as
3 polyethylene and polypropylene is used as a material for said speaker diaphragm.

1 7. The method for manufacturing a speaker diaphragm as defined in
2 Claim 3, wherein one of monopolymer and copolymer of polyolefin such as
3 polyethylene and polypropylene is used as a material for said speaker diaphragm.

1 8. The method for manufacturing a speaker diaphragm as defined in
2 Claim 4, wherein one of monopolymer and copolymer of polyolefin such as
3 polyethylene and polypropylene is used as a material for said speaker diaphragm.

1 9. A speaker diaphragm manufactured in accordance with the steps
2 of:
3 disposing a resin speaker diaphragm made by one of injection
4 molding and sheet forming by heating in a reactive chamber;
5 disposing an electrode outside said reactive chamber; and
6 activating the surface of said speaker diaphragm by applying plasma
7 while keeping the temperature inside said reactive chamber below the heat
8 deformation temperature of said speaker diaphragm.

1 10. The speaker diaphragm as defined in Claim 9, wherein
2 isocyanate primer is applied after plasma treatment.

1 11. The speaker diaphragm as defined in Claim 9, wherein one of
2 monopolymer and copolymer of polyolefin such as polyethylene and
3 polypropylene is used as a material for said speaker diaphragm.

1 12. The speaker diaphragm as defined in Claim 10, wherein one of
2 monopolymer and copolymer of polyolefin such as polyethylene and
3 polypropylene is used as a material for said speaker diaphragm.

1 13. A speaker at least comprising:
2 a magnetic circuit;
3 a frame connected to said magnetic circuit; and
4 a speaker diaphragm whose inner circumference being connected to
5 a voice coil embedded in a magnetic gap of said magnetic circuit, and outer
6 circumference being bonded to said frame;
7 wherein said speaker diaphragm is one of that defined in Claims 9 to
8 12.

1 14. A speaker at least comprising:
2 a magnetic circuit;
3 a frame connected to said magnetic circuit; and
4 a speaker diaphragm whose inner circumference being connected to
5 a voice coil embedded in a magnetic gap of said magnetic circuit, and outer
6 circumference being bonded to said frame via an edge;
7 wherein said speaker diaphragm is one of that defined in Claims 9 to
8 12.